

IN THE CLAIMS

Please amend claims 19 and 24.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A cable harness comprising:
a frame capable of being attached to a rack, the rack having a number of blades disposed therein, the frame including a number of channels, each channel for routing at least one cable from one of the blades and toward a rear of the rack; and
a channel array capable of being coupled with the frame, the channel array including a number of channels, each channel for routing at least one cable from one of the blades and towards one side of the rack wherein each channel is defined by a generally semicircular channel floor and two opposing channel sidewalls extending from the channel floor, each of the channels of the channel array extends along an approximate ninety degree arc.
2. (Original) The cable harness of claim 1, further comprising:
a second channel array capable of being coupled with the frame, the second channel array including a number of channels, each channel for routing at least one cable from one of the blades and towards an opposing side of the rack.
3. (Original) The cable harness of claim 2, wherein the frame defines a first bay for receiving the channel array and a second bay for receiving the second channel array.

4. (Original) The cable harness of claim 3, wherein each of the first and second bays includes at least one guide element, the at least one guide element of each bay to position a channel array in that bay.

5. (Original) The cable harness of claim 3, wherein each of the channel array and the second channel array is coupled with the frame using at least one fastener.

6. (Original) The cable harness of claim 3, wherein each of the channel array and the second channel array is coupled with the frame by a snap fit.

7. (Original) The cable harness of claim 1, wherein each of the channels of the frame routes the at least one cable into an open cavity of the rack and toward the rear of the rack.

8. (Original) The cable harness of claim 7, wherein, at the rear of the rack, the at least one cable associated with each of the channels is routed upwards towards a top of the rack.

9. (Original) The cable harness of claim 1, wherein each channel of the channel array includes a hook for receiving an anchoring device, the anchoring device for holding a number of cables.

10. (Original) The cable harness of claim 1, wherein each channel of the channel array includes a pair of opposing slots for receiving an anchoring device, the anchoring device for holding a number of cables.

11. (Original) The cable harness of claim 1, further comprising a cover capable of being attached to the frame, the cover overlying the channel array.

12. (Original) The cable harness of claim 1, wherein each channel of the frame comprises a generally rectangular-shaped open channel having a floor and two opposing side walls extending upwards from the floor.

13. (Currently amended) The cable harness of claim 1, wherein each channel of the channel array comprises a generally rectangular-shaped open channel ~~having a floor and two opposing side walls extending upwards from the floor~~.

14. (Canceled)

15. (Original) The cable harness of claim 13, wherein the floor is generally semicircular in shape.

16. (Original) The cable harness of claim 1, wherein each of the frame and the channel array comprises a plastic material.

17. (Original) The cable harness of claim 16, wherein each of the frame and the channel array is constructed using a molding process.

18. (Original) A cable clip comprising:
a longitudinally extending body having a first end and an opposing second end;

a number of clasps disposed on the body between the first and second ends, each of the clasps for holding a cable;

a first coupling mechanism disposed at the first end of the body, the first coupling mechanism for attaching the cable clip to one end of another cable clip; and

a second coupling mechanism disposed at the second end of the body, the second coupling mechanism for attaching the cable clip to one end of another cable clip.

19. (Currently amended) The cable clip of claim 18, wherein the first coupling mechanism is identical to the second ~~connector~~ coupling mechanism

20. (Original) The cable clip of claim 19, wherein the first coupling mechanism is oriented 180 degrees relative to the second coupling mechanism.

21. (Original) The cable clip of claim 20, wherein each of the first and second coupling mechanisms comprises:

a resiliently flexible arm extending from one of the ends of the body and disposed on one side of the body, the flexible arm having a protrusion disposed at an outer end thereof; and

a notch disposed on an opposing side of the body proximate the one end, the notch to receive a protrusion on a resiliently flexible arm of a coupling mechanism on another cable clip.

22. (Original) The cable clip of claim 21, wherein each of the first and second coupling mechanisms further comprises:

a pair of opposing guide posts disposed on the body proximate the flexible arm and extending from the one end of the body, the pair of opposing arms to mate with a pair of opposing guide surfaces disposed on another cable clip; and

a pair of opposing guide surfaces disposed on the body adjacent to the opposing guide posts, the opposing guide surfaces to mate with a pair of opposing guide posts disposed on another cable clip.

23. (Original) The cable clip of claim 21, wherein the resiliently flexible arm includes a handle, the handle comprising an angled extension extending from the outer end of the resiliently flexible arm.

24. (Currently amended) The cable clip of claim 18, wherein each of the clasps comprises:

a first resiliently flexible arm extending from the body;

a second resiliently flexible arm extending ~~form~~ from the body and spaced apart from the first resiliently flexible arm;

wherein a space between the first and second arms has a size greater than a diameter of the cable.

25. (Original) The cable clip of claim 24, wherein an outer end of the first arm is separated from an outer end of the second arm by a distance less than the diameter of the cable.

26. (Original) The cable clip of claim 24, wherein an equal number of the clasps is disposed on each of opposing sides of the body.

27. (Original) The cable clip of claim 18, wherein the body comprises a plastic material.

28. (Original) The cable clip of claim 27, wherein the body is formed using a molding process.

29. (Original) A bundle clip comprising:
a cylindrical shaped body extending from a first end to an opposing second end and defining an interior region having size sufficient to receive a number of cables;
an entry disposed between the first and second ends and opening into the interior region, the entry having a size less than a diameter of one of the cables;
a first coupling mechanism disposed on a side of the body, the first coupling mechanism for attaching the bundle clip to another bundle clip; and
a second coupling mechanism disposed on an opposing side of the body, the second coupling mechanism for attaching the bundle clip to another bundle clip.

30. (Original) The bundle clip of claim 29, wherein the body comprises a resiliently flexible material.

31. (Original) The bundle clip of claim 30, wherein upon insertion of a cable into the entry, the body elastically deforms to expand the entry to a size sufficient to receive the cable.

32. (Original) The bundle clip of claim 30, wherein the resiliently flexible material comprises a plastic material.

33. (Original) The bundle clip of claim 32, wherein the body is formed using a molding process.

34. (Original) The bundle clip of claim 29, wherein each of the first and second ends of the body proximate the entry are rounded.

35. (Original) The bundle clip of claim 29, wherein each of the first and second ends of the body proximate the entry are semicircular in shape.

36. (Original) The bundle clip of claim 29, wherein the first coupling mechanism comprises:

a keyway disposed on an exterior of the body, the keyway to slidably receive a mating key disposed on a second bundle clip; and

a resiliently flexible arm disposed on the exterior of the body proximate the keyway, the arm having a protrusion extending from an outer end thereof;

wherein, upon insertion of the key of the second bundle clip into the keyway, the protrusion on the outer end of the arm mates with a corresponding notch on the second bundle clip.

37. (Original) The bundle clip of claim 29, wherein the second coupling mechanism comprises:

a key disposed on the exterior of the body, the key to slidably mate with a corresponding keyway disposed on a second bundle clip; and

a notch disposed on the exterior proximate the key;

wherein, upon insertion of the key into the keyway of the second bundle clip, the notch mates with a protrusion on an end of a resiliently flexible arm extending from the second bundle clip.

38. (Original) The bundle clip of claim 29, wherein the first and second coupling mechanisms are separated by an angle of approximately 180 degrees.

39. (Original) The bundle claim of claim 29, further comprising:

a first support element extending from the body and positioned proximate the first coupling mechanism, wherein the first support element, upon coupling the first coupling mechanism with a second bundle clip, abuts an exterior surface of the second bundle clip; and

a second support element extending from the body and positioned proximate the second coupling mechanism, wherein the second support element, upon coupling the second coupling mechanism with a third bundle clip, abuts an exterior surface of the third bundle clip.

40. (Original) The bundle clip of claim 29, wherein the cylindrical shaped body comprises an oval shape.

41. (Currently amended) A rack mounted installation comprising:

a rack, the rack comprising a generally rectangular housing having an interior cavity;

a number of blades disposed in the interior cavity of the housing, each of at least some of the blades including a number of connectors, each connector for coupling with a cable;

and

a cable harness, the cable harness including

a frame attached to the rack, the frame including a number of channels, each channel for routing at least one cable from one of the blades and toward a rear of the rack, and

a channel array attached to the frame, the channel array including a number of channels, each channel for routing at least one cable from one of the blades and towards one side of the rack wherein each channel is defined by a generally semicircular channel floor and two opposing channel sidewalls extending from the channel floor, each of the channels of the channel array extends along an approximate ninety degree arc.

42. (Original) The installation of claim 41, further comprising a second channel array attached to the frame, the second channel array including a number of channels, each channel for routing at least one cable from one of the blades and toward an opposing side of the rack.

43. (Original) The installation of claim 41, further comprising:
a first cable clip to hold at least one cable extending from one of the blades; and
a second cable clip to hold at least one cable extending from one of the blades, the second cable clip having a coupling mechanism on one end coupled with a mating coupling mechanism on one end of the first cable clip.

44. (Original) The installation of claim 43, further comprising:
a first bundle clip to hold a group of cables associated with the first cable clip; and
a second bundle clip to hold a group of cables associated with the second cable clip, the second bundle clip having a coupling mechanism on one side coupled with a mating coupling mechanism on one side of the first bundle clip.

45. (Original) The installation of claim 43, wherein each of the first and second cable clips is holding cables associated with a same one of the blades.

46. (Original) The installation of claim 45, wherein all cables associated with the same one blade are placed in one channel of the cable harness, the one channel comprising a channel of the channel array or a channel of the frame.

47. (Currently amended) A method comprising:
securing a first set of cables extending from a blade in a first cable clip, the blade disposed in a rack;

securing a second set of cables extending from the blade in a second cable clip
wherein each of the first cable clip and the second cable clip comprise a longitudinally extending body having a number of clasps disposed on each of two opposing sides of the body between a first end of the body having a first coupling mechanism disposed thereon, and an opposing second end of the body having a second coupling mechanism disposed thereon;

attaching the second cable clip to the first cable clip;

inserting the first set of cables into a first bundle clip;

inserting the second set of cables into a second bundle clip; and

attaching the second bundle clip to the first bundle clip.

48. (Original) The method of claim 47, further comprising routing the first and second sets of cables into one of a number of channels of a cable harness, the one channel routing the first and second sets of cables toward a raceway disposed adjacent to the rack.

49. (Original) The method of claim 48, wherein the one channel routes the first and second sets of cables toward a side of the rack.

50. (Original) The method of claim 48, wherein the one channel routes the first and second sets of cables toward a rear of the rack.

51. (Currently amended) A method comprising:
disposing a first group of cables within a first channel of a cable harness, the cable harness installed on a rack, the first channel routing the first group of cables towards a side of the rack; and
disposing a second group of cables within a second channel of the cable harness, the second channel routing the second group of cables towards a rear of the rack
holding the first group of cables within a corresponding first number of interconnected bundle clips; and
holding the second group of cables within a corresponding second number of interconnected bundle clips wherein each bundle clip comprises a cylindrical shaped body extending from a first end to an opposing second end and defining an interior region having size sufficient to receive a number of cables, an entry disposed between the first and second ends and opening into the interior region, the entry having a size less than a diameter of one of the cables, a first coupling mechanism disposed on a side of the body, the first coupling mechanism for attaching the bundle clip to another bundle clip, and a second coupling mechanism disposed on an opposing side of the body, the second coupling mechanism for attaching the bundle clip to another bundle clip.

52. (Original) The method of claim 51, wherein the first group of cables are each connected with a first blade disposed in the rack and the second group of cables are each connected with a second blade disposed in the rack.

53. (Original) The method of claim 52, further comprising:
securing each of the first group of cables within one of a first number of interconnected cable clips; and
securing each of the second group of cables within one of a second number of interconnected cable clips.

54. (Canceled)